

Appl. No. : 09/767,207
Filed : January 22, 2001

AMENDMENTS TO THE CLAIMS

Please cancel Claims 1-50.

Please add new Claims 51 through 72 as follows:

1 - 50. **(Canceled)**

51. **(New)** A connector fitting in combination with a retainer for releasably securing a medical line to an adaptor with a tubular portion, comprising:

an elongated body, at least a portion of which is adapted to insert into the tubular portion of the adaptor, and at least one radially extending member disposed upon the elongated body, the at least one radially extending member having at least one contact surface;

a spin nut comprising a generally tubular body slidably and rotatably disposed upon the elongated body, a screw thread disposed upon an inner surface of the spin nut, and a receptacle disposed distally upon the spin nut having an internal cross section, the receptacle having at least one contact surface disposed proximally of the distal end of the spin nut, the at least one contact surface configured and arranged to interact with the at least one contact surface of the radially extending member when the receptacle receives at least a portion of the radially extending member so as to transfer both axial and rotational forces between the spin nut and the connector fitting, wherein the connector fitting is disposed upon the proximal end of the medical line; and

a retainer comprising a channel that extends through the retainer along a longitudinal axis, and at least one slot which receives the at least one radial member of the connector fitting in order to secure the fitting in position upon the retainer.

52. **(New)** A connector fitting for releasably securing a medical line to an adaptor in combination with a retainer, comprising:

an elongated body with at least one radially extending member disposed upon the elongated body;

a spin nut comprising a generally tubular body slidably and rotatably disposed upon the elongated body, a screw thread disposed upon an inner surface of the spin nut, and a receptacle disposed distally upon the spin nut having an internal cross section which varies radially about its circumference, at least a portion of the radially extending

member being adapted to be inserted into the receptacle of the spin nut, said portion extending entirely around the axis of the elongated body; and

a retainer comprising a channel that extends through the retainer along a longitudinal axis, and at least one slot which receives the at least one radial member of the connector fitting in order to secure the fitting in position upon the retainer.

53. (New) A connector fitting for releasably securing a medical line to an adaptor with a tubular portion, the fitting comprising:

an elongated body, at least a portion of which is adapted to insert into the tubular portion of the adaptor, and at least one radially extending member disposed upon the elongated body, the at least one radially extending member having at least one contact surface;

a spin nut comprising a generally tubular body slidably and rotatably disposed upon the elongated body, a screw thread disposed upon an inner surface of the spin nut, and a receptacle disposed distally upon the spin nut having an internal cross section, the receptacle having at least one contact surface disposed proximally of the distal end of the spin nut, the at least one contact surface configured and arranged to interact with the at least one contact surface of the radially extending member when the receptacle receives at least a portion of the radially extending member so as to transfer both axial and rotational forces between the spin nut and the connector fitting, wherein the connector fitting is disposed upon the proximal end of the medical line; and

wherein the connector fitting includes a second radially extending member which is configured to cooperate with a slot of an anchoring system.

54. (New) A connector fitting for releasably securing a medical line to an adaptor with a tubular portion, the fitting comprising:

an elongated body, at least a portion of which is adapted to insert into the tubular portion of the adaptor, and at least one radially extending member disposed upon the elongated body, the at least one radially extending member having at least one contact surface; and

a spin nut comprising a generally tubular body slidably and rotatably disposed upon the elongated body, a screw thread disposed upon an inner surface of the spin nut, and a receptacle disposed distally upon the spin nut having an internal cross section, the

receptacle having at least one contact surface disposed proximally of the distal end of the spin nut, the at least one contact surface configured and arranged to interact with the at least one contact surface of the radially extending member when the receptacle receives at least a portion of the radially extending member so as to transfer both axial and rotational forces between the spin nut and the connector fitting, wherein the connector fitting is disposed upon the proximal end of the medical line, wherein the internal cross section of the receptacle of the spin nut has a generally hexagonal shape.

55. (New) A connector fitting for releasably securing a medical line to an adaptor with a tubular portion, the fitting comprising:

an elongated body, at least a portion of which is adapted to insert into the tubular portion of the adaptor, and at least one radially extending member disposed upon the elongated body, the at least one radially extending member having at least one contact surface; and

a spin nut comprising a generally tubular body slidably and rotatably disposed upon the elongated body, a screw thread disposed upon an inner surface of the spin nut, and a receptacle disposed distally upon the spin nut having an internal cross section, the receptacle having at least one contact surface disposed proximally of the distal end of the spin nut, the at least one contact surface configured and arranged to interact with the at least one contact surface of the radially extending member when the receptacle receives at least a portion of the radially extending member so as to transfer both axial and rotational forces between the spin nut and the connector fitting, wherein the connector fitting is disposed upon the proximal end of the medical line, wherein the internal cross section of the receptacle of the spin nut has a star shape.

56. (New) A connector fitting for releasably securing a medical line to an adaptor with a female portion, the fitting comprising:

an elongated body having a first section and a second section with a lumen through both sections, a proximal end portion of the second section having a tapering outer shape configured for insertion into the female portion of the adaptor, and at least one radially extending member disposed on the first section of the elongated body and having at least one contact surface; and

a spin nut comprising a generally tubular body slidably and rotatably disposed on the first section of the elongated body, a screw thread formed on an inner surface of the spin nut, and a receptacle disposed distally upon the spin nut, the receptacle having at least one contact surface disposed within the receptacle, the at least one contact surface configured and arranged to interact with the at least one contact surface of the radially extending member when the receptacle receives at least a portion of the radially extending member so as to transfer both axial and rotational forces between the spin nut and the connector fitting while limiting distal longitudinal movement of the spin nut relative to the elongated body,

wherein the spin nut and the elongated body include cooperative structures that limit proximal longitudinal movement of the spin nut relative to the elongated body.

57. (New) A connector fitting as in Claim 56, wherein the cooperative structures include a retaining ridge disposed on the elongated body.
58. (New) A connector fitting as in Claim 56 in combination with a retainer comprising a channel that extends through the retainer along a longitudinal axis, and at least one slot which receives the at least one radial member of the connector fitting in order to secure the fitting in position upon the retainer.
59. (New) A connector fitting as in Claim 56 wherein the receptacle has an internal cross section with a generally hexagonal shape.
60. (New) A connector fitting as in Claim 56, wherein the receptacle has an internal cross section with a star shape.
61. (New) A connector fitting for releasably securing a medical line to an adaptor having a female portion, the fitting comprising:

an elongated body having a tapering proximal end and at least one radially extending member disposed upon the elongated body, the tapering proximal end being configured for insertion into the female portion of the adapter, the at least one radially extending member having an external cross section with at least one contact surface disposed on the periphery of the radially extending member; and

a spin nut comprising a generally tubular body slidably and rotatably disposed on the elongated body, a screw thread formed on an inner surface of the spin nut, and a receptacle disposed distally upon the spin nut having an internal cross section which

corresponds in shape to the external cross section of the at least one radially extending member, at least a portion of the radially extending member being adapted to be inserted into the receptacle of the spin nut, said portion extending entirely around the axis of the elongated body,

wherein the spin nut and the elongated body including cooperative structures that limit proximal longitudinal movement of the spin nut relative to the elongated body.

62. (New) A connector fitting as in Claim 61, wherein the cooperative structures include a retaining ridge disposed on the elongated body.

63. (New) A connector fitting as in Claim 61 in combination with a retainer comprising a channel that extends through the retainer along a longitudinal axis, and at least one slot which receives the at least one radial member of the connector fitting in order to secure the fitting in position upon the retainer.

64. (New) A connector fitting for releasably securing a medical line to an adaptor having a female portion, the connector fitting comprising:

an elongated body having a tapering end portion configured to be inserted into the female portion of the adaptor, and at least one radially extending member disposed upon the elongated body, the at least one radially extending member having multiple contact surfaces; and

a spin nut comprising a generally tubular body slidably and rotatably disposed upon the elongated body and being configured to secure to an adaptor independent of the radially extending member, and having multiple contact surfaces disposed upon the spin nut, the multiple contact surfaces of the spin nut corresponding in shape to the multiple contact surfaces of the radially extending member so as to transfer both axial and rotational forces between the spin nut and the connector fitting while limiting distal longitudinal movement of the spin nut relative to the elongated body,

wherein the spin nut and the elongated body including cooperative structures that limit proximal longitudinal movement of the spin nut relative to the elongated body.

65. (New) A connector fitting as in Claim 64, wherein the cooperative structures include a retaining ridge disposed on the elongated body.

66. (New) A connector fitting as in Claim 64, wherein the spin nut further comprises a receptacle disposed distally upon the spin nut and wherein the at least one contact surface of the spin nut is disposed within the receptacle of the spin nut.
67. (New) A connector fitting for releasably securing a medical line to an adaptor having a female portion, the connector fitting comprising:
an elongated body, at least an end portion having a tapering shape configured for insertion into the female portion of the adaptor, the elongated body having at least one radially extending member disposed upon the elongated body, the radially extending member having at least one contact surface disposed on the periphery of the radially extending member; and
a spin nut disposed upon the elongated body and having a first cavity portion and a second cavity portion, the first cavity portion and the second cavity portion being disposed on opposite ends of the spin nut, the first cavity portion having a screw thread formed on an inner surface and being configured to secure to the adapter, the second cavity portion having at least one contact surface disposed upon an inner surface, the at least one contact surface of the spin nut configured and arranged to interact with the at least one contact surface of the radially extending member so as to transfer both axial and rotational forces between the spin nut and the connector fitting while limiting distal longitudinal movement of the spin nut relative to the elongated body.
68. (New) A connector fitting as in Claim 67, wherein the spin nut and the elongated body including cooperative structures that limit proximal longitudinal movement of the spin nut relative to the elongated body.
69. (New) A connector fitting as in Claim 67, wherein the cooperative structures include a retaining ridge disposed on the elongated body.
70. (New) A connector fitting as in Claim 67, wherein the engagement between the spin nut and the radially extending member when the spin nut is in the distal position provides transfer of distally directed force from the spin nut to the connector fitting and provides transfer of rotational torque from the spin nut to the connector fitting.
71. (New) A connector fitting as in Claim 67, wherein a greatest radius of the radially extending member is greater than a least radius of the receptacle.

Appl. No. : **09/767,207**
Filed : **January 22, 2001**

72. (New) A connector fitting as in Claim 67, wherein the connector fitting includes a second radially extending member which is configured to cooperate with a slot of an anchoring system.